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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/914,995	01/18/2002	Norbert Becker	3286-0168P	7874

30596 7590 05/22/2006

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EXAMINER

LY, ANH

ART UNIT PAPER NUMBER

2162

DATE MAILED: 05/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/914,995

Applicant(s)

BECKER ET AL.

Examiner

Anh Ly

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 February 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is response to Applicants' Response filed 02/21/2006 and submission of certified Translation of Priority Document dated **March 9, 1999**. It was overcome the secondary reference, Pub. No.: US: 2001/0042067 having filing date **October 4, 1999** of Fraley et al.
2. Claims 1-27 are pending in this application.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 8 and 27 are rejected under 35 U.S.C. 101 because "**means for**" in the body of those claims are non statutory, directed to **software, per se**. (see page 2, in the spec, lines 17-20).

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1, 8, 26 and 27 recite the limitation "**the automatic retrieval** of engineering data" in the preamble of claims. There is insufficient antecedent basis for this limitation in the claim.

7. Claims 1, 8, 26 and 27 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: while the method of claim providing the use of automatic retrieval of engineering data from an automation system with a multiplicity of individual automation objects as set forth in the preamble of the claim, however, the body of claim does not appear to actually support the preamble by including a step or steps which accomplish that act.

Drawings

8. The drawings are objected to because there is **foreign language** “Instanziierung” in the fig. 1. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are

not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

11. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,119,125 issued to Gloudeman et al. (hereinafter Gloudeman) in view of Patent No.: US 6,059,838 issued to Fraley et al. (hereinafter Fraley).

With respect to claim 1, Gloudeman teaches a method for automatic retrieval of engineering data from an automation system with a multiplicity of individual automation

objects for the restoration of representatives in an engineering system of objects of the automation system (a computer-implemented building automation system provides a computer software that support object oriented system development and the standard objects are interconnected by pulling and pushing information from one to another:

abstract, col. 1, lines 40-60), comprising:

supplying, via the objects, an identifying designation of a type of respective representative to the system (each object in the system is identified by an access key object: col. 19, lines 38-45); and

having, based upon the reference, each representative read out engineering information from the object (the objects are read out by using Read and Signup method: col. 6, lines 55-65).

Gloudeman teaches constructing building automation applications, which are providing a computer software architecture supporting object-oriented software system as well as application for engineering for creating sets of applications for each device environment (col. 1, lines 40-50 and col. 4, lines 5-10), uploading object data to designated intermediate storage device (col. 27, lines 8-14), and objects in the system are referenced as indexes via slot indexes. Gloudeman does not clearly teach an engineering system and creating, via the system, corresponding representatives for the designated types and, for each of the representatives, entering a reference to the object.

However, Fraley teaches creating and manipulating objects and modifying the property of these object through a public object interface (col. 2, lines 17-28 and col. 3, lines 12-18; also col. 1, lines 15-30 and col. 6, lines 15-62).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Gloudeman with the teachings of Fraley. One having ordinary skill in the art would have found it motivated to utilize the use of the object-oriented programming objects to creating the object through a public object interface (Fraley's col. 1, lines 15-30), into the system of Gloudeman for the purpose of automatically reading out/retrieving objects in the computer implemented automation object system for software systems as an engineering system (Fraley's col. 2, lines 18-65 and col. 6, lines 15-62).

With respect to claim 2, Gloudeman teaches a method for automatic retrieval of engineering data as discussed in claim 1. Also Gloudeman teaches supplying, for devices on which the automation objects run, an identifying designation of a type of respective device representative to the system, creating, via the system, corresponding device representatives for the designated types and having, based upon the reference, each device representative read out engineering information from the device and, wherein, in a second step for the restoration of representatives of the automation objects in the engineering system, the method further comprises, supplying, via the automation objects, an identifying designation of a type of respective representative to the engineering system, creating, via the engineering system, Corresponding representatives for the designated types, and having, based upon the reference, each

representative read out engineering information from the automation object (each object in the system is identified by an access key object: col. 19, lines 38-45; and building an automation system containing objects: col. 1, lines 40-58; and the objects are read out by using Read and Signup method: col. 6, lines 55-65).

Gloudeman teaches constructing building automation applications, which are providing a computer software architecture supporting object-oriented software system as well as application for engineering for creating sets of applications for each device environment (col. 1, lines 40-50 and col. 4, lines 5-10), uploading object data to designated intermediate storage device (col. 27, lines 8-14), and objects in the system are referenced as indexes via slot indexes. Gloudeman does not clearly teach an engineering system.

However, Fraley teaches creating and manipulating objects and modifying the property of these object through a public object interface (col. 2, lines 17-28 and col. 3, lines 12-18; also col. 1, lines 15-30 and col. 6, lines 15-62).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Gloudeman with the teachings of Fraley. One having ordinary skill in the art would have found it motivated to utilize the use of the object-oriented programming objects to creating the object through a public object interface (Fraley's col. 1, lines 15-30), into the system of Gloudeman for the purpose of automatically reading out/retrieving objects in the computer implemented automation object system for software systems as an engineering system (Fraley's col. 2, lines 18-65 and col. 6, lines 15-62).

With respect to claim 3, Gloudeman discloses supplying, via the devices, lists with communication relationships to the engineering system (col. 4, lines 31-67); and converting, in the engineering system, entries of the lists into references to inputs and outputs of the representatives of the automation objects and, subsequently, setting up corresponding connections up in the engineering system (col. 9, lines 25-42 and col. 12, lines 44-52).

With respect to claim 4, Gloudeman discloses wherein both the objects of the engineering system and the objects of the automation system are described by a uniform, executable object model and a direct communication at model level is possible between the objects of the engineering system and the objects of the automation system (col. 3, lines 38-67, col. 4, lines 1-10, col. 6, lines 12-46 and col. 7, lines 54-62; also see fig. 2; level of object model).

With respect to claim 5, Gloudeman discloses wherein entries in the lists with communication relationships contain sources and drains of the communication relationships, the sources and drains in each case being described by a triple from an identifier of the device, an identifier of the automation object and an identifier of the input or output (col. 9, lines 4-42).

With respect to claim 6, Gloudeman discloses wherein the objects of the automation system have no direct reference to the associated objects of the engineering system, to make it possible for the engineering system and automation system to be separated (col. 22, lines 55-67 and col. 23, lines 1-10).

With respect to claim 7, Gloudeman discloses wherein, the method is used for the updating of already existing engineering information as a delta method. (col. 17, lines 55-67 and col. 18, lines 1-32; also col. 27, lines 4-14).

Claim 8 is essentially the same as claim 1 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 1 hereinabove.

Claim 9 is essentially the same as claim 2 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 2 hereinabove.

Claim 10 is essentially the same as claim 3 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 3 hereinabove.

Claim 11 is essentially the same as claim 4 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 4 hereinabove.

Claim 12 is essentially the same as claim 5 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 5 hereinabove.

Claim 13 is essentially the same as claim 6 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 6 hereinabove.

Claim 14 is essentially the same as claim 7 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 7 hereinabove.

With respect to claims 15-16, Gloudeman discloses wherein both the objects of the engineering system and the objects of the automation system are described by a uniform, executable object model and a direct communication at model level is possible between the objects of the engineering system and the objects of the automation system (col. 3, lines 38-67, col. 4, lines 1-10, col. 6, lines 12-46 and col. 7, lines 54-62; also see fig. 2; level of object model).

With respect to claims 17-19, Gloudeman discloses wherein entries in the lists with communication relationships contain sources and drains of the communication relationships, the sources and drains in each case being described by a triple from an identifier of the device, an of the automation object and an identifier of the input or output (col. 9, lines 4-42).

Claims 20-21 are essentially the same as claims 15-16 except that they are directed to a system rather than a method, and are rejected for the same reason as applied to the claims 15-16 hereinabove.

Claims 22-24 are essentially the same as claims 17-19 except that they are directed to a system rather than a method, and are rejected for the same reason as applied to the claims 17-19 hereinabove.

With respect to claim 25, Gloudeman teaches wherein the first step for the restoration of device representatives in the engineering system is initiated from a software system (col. 2, lines 28-42 and col. 3, lines 4-16).

With respect to claim 26, Gloudeman teaches supplying, via the runtime automation objects, identifiers each identifying a type of respective representative, corresponding to one of the runtime automation objects, to the system (each object in the system is identified by an access key object: col. 19, lines 38-45);

entering a reference to the corresponding runtime automation object (col. 11, lines 22-40 and col. 21, lines 12-30; and col. 25, lines 1-36); and

having, each engineering representative read out engineering data from the corresponding runtime automation object (the objects are read out by using Read and Signup method: col. 6, lines 55-65).

Gloudeman teaches discloses constructing building automation applications, which are providing a computer software architecture supporting object-oriented software system as well as application for engineering for creating sets of applications for each device environment (col. 1, lines 40-50 and col. 4, lines 5-10), uploading object data to designated intermediate storage device (col. 27, lines 8-14), and objects in the system are referenced as indexes via slot indexes. Gloudeman does not clearly teach an engineering system and creating, via the system, for each of the types, a corresponding engineering representative and entering a reference to the corresponding runtime automation object in each of the representatives.

However, Fraley teaches creating and manipulating objects and modifying the property of these object through a public object interface (col. 2, lines 17-28 and col. 3, lines 12-18; also col. 1, lines 15-30 and col. 6, lines 15-62).


Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Gloudeman with the teachings of Fraley. One having ordinary skill in the art would have found it motivated to utilize the use of the object-oriented programming objects to creating the object through a public object interface (Fraley's col. 1, lines 15-30), into the system of Gloudeman for the purpose of automatically reading out/retrieving objects in the computer implemented automation object system for software systems as an engineering system (Fraley's col. 2, lines 18-65 and col. 6, lines 15-62).

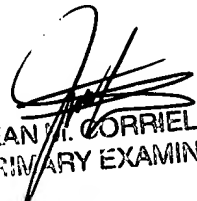
Claim 27 is essentially the same as claim 26 except that it is directed to a system rather than a method, and is rejected for the same reason as applied to the claim 26 hereinabove.

Contact Information

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Ly whose telephone number is (571) 272-4039 or via E-Mail: ANH.LY@USPTO.GOV (**Written Authorization being given by Applicant (MPEP 502.03 [R-2])) or fax to (571) 273-4039 (Examiner's personal Fax No.)**). The examiner can normally be reached on TUESDAY – THURSDAY from 8:30 AM – 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene, can be reached on (571) 272-4107 or **Primary Examiner: Jean Corrielus (571) 272-4032**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Any response to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or faxed to: **Central Fax Center: (571) 273-8300**

ANH LY 
MAY 10th, 2006


JEAN M. CORRIELUS
PRIMARY EXAMINER